

D-135

JAPANESE MEDICAL MATERIAL

CHAIR, DENTAL, FIELD, PORTABLE

288997

Medical No. 198

30 March 1946

MEDICAL ANALYSIS SECTION
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Chair, Dental, Field, Portable

SOURCE: Army Medical Department Headquarters Depot,
Tokyo, Japan.

IMPORTANCE: Not previously reported.

DESCRIPTION: A dental chair, dentist's stand, and patient's footrest, are carried in a wooden chest $39\frac{1}{2}$ " x 13" x 10". The chest is provided with fixtures on which the dentist's stand and patient's footrest are erected, and the chair, when assembled, is placed over the empty chest; so that chair, stand, footrest, and chest constitute one compact unit.

The chair is constructed of metal tubing, and iron castings, with wood and cloth seat and backrest. Independent adjustments are possible in tilt of chair, height of seat, height of backrest, height of headrest, and projection of headrest.

It consists of the following parts:

1. Coasters, wooden, for legs, ea 3.
2. Front legs, painted metal tubing, threaded, 24", ea 2.
3. Front leg tip, polished metal, threaded, 2", ea 2.
4. Rear leg, cast iron, with sockets for front legs, and quick release bolt for clamping tilt-adjustment brace.
5. Chair support, cast iron, with machined slides, for seat and backrest, and with release bolt for headrest rod.

6. Tilt-adjustment brace, steel, 2 $\frac{1}{4}$ ".
7. Pin, steel, for securing rear leg to seat and backrest support.
8. Pin, steel, for securing tilt-adjustment brace to seat and backrest support.
9. Headrest rod, steel, with adjustable headrest clamp.
10. Headrest, wood and cloth, pivoted to a steel rod which is held in adjustable headrest clamp.
11. Seat support, cast iron, with ratchet to engage in chair support.
12. Seat, wood and cloth, 19" x 15".
13. Seat braces, steel, ea 5.
14. Backrest, wood and cloth, 16" x 12".
15. Backrest braces, steel, ea 6.

The stand is fastened on a fixture permanently secured to a side of the chest. The entire stand may be swung around this fixture, and the tray, expectoration dish support, and cup holder may be swung around the stand. As erected, the stand is 45" high and consists of the following parts:

1. Pin, steel, for securing stand to permanent fixture.
2. Bracket, cast iron, for supporting stand rod.
3. Stand rod, steel, 30".
4. Tray support, cast iron.
5. Tray, chromium plated, 11" diameter.
6. Expectoration dish support, cast iron, adjustable.
7. Drinking cup holder, chromium plated.

8. Spacer, metal, 3/4", for supporting cup holder.
9. Bolt, for securing supports on rod.

The footrest is a short ladder with metal uprights and wooden rungs. It fits in a sloping position into fixtures incorporated for this purpose into the chest.

COMMENT: This chair cannot be properly evaluated by direct comparison with the corresponding U.S. Army Medical Department item (Chair, Dental, Field, Folding, Catalogue No. 9502100), for the two appear to have been designed with different ends in view. The American chair is light, easy to pack and unpack, and has a minimum of parts; in these respects it is superior to the Japanese chair. The latter, however, designed for a more permanent type of field installation, is sturdier, more adjustable, more comfortable to dentist and patient, and it includes a footrest and dentist's stand. The designers have not made the common Japanese error of over-economy in the use of metal, and the chair is sturdy, stable and well constructed. Disassembled, the unit is compact, and light enough to be carried by two men, and one man can erect the complete unit in approximately five minutes time.

Photographs: Fig. 1 - Unit assembled.
Fig. 2 - Unit disassembled.



Fig. 1 - Unit assembled.



Fig. 2 - Unit disassembled.